

Postdoctoral Position: Structural Biology of Pol I and Pol III Transcription

Location: Heidelberg, Germany
Staff Category: Postdoctoral Fellow
Contract Duration: 24 month
Grading: Postdoctoral Stipend
Closing Date: January 31, 2023
Reference Number: HD02330

The Müller group is looking to recruit a highly motivated and cross-disciplinary postdoctoral researcher to pursue structure-function analyses of RNA polymerase I and RNA polymerase III transcription complexes. The Müller group (<https://www.embl.org/groups/mueller/>) pursues on one hand integrative structural biology and biochemical characterization of yeast and human Pol I and Pol III transcription complexes and their interaction with cellular factors in vitro to understand better their roles in human diseases including cancer. On the other hand, we explore in situ the role of Pol I and Pol III transcription in shaping the nucleolus and in genome organization using cryo-electron tomography, fluorescence microscopy and correlative approaches.

Your role

The successful candidate will lead a cutting-edge experimental research project in the structure-function analysis of Pol I and Pol III transcription complexes. Depending on the interests of the applicants, possible projects will focus more on biochemical assays and structure determination by single-particle cryo-EM in vitro or on imaging by cryo-ET, fluorescence microscopy and correlative approaches in situ.

You have

PhD in structural biology, biochemistry, biophysics, molecular biology or related disciplines (or you are close of finishing your PhD). Experience in cryo-EM (single-particle or cryo-ET) and/or biochemistry (cell culture, protein expression & purification, transcription assays etc.). The ability to work independently and creatively. High commitment and motivation.

You might also have

Experience in fluorescence microscopy.

Experience in computational biology.

Why join us

EMBL is an inclusive, equal opportunity employer offering attractive conditions and benefits appropriate to an international research organisation with a very collegial and family friendly working environment. The remuneration package comprises a competitive salary, a comprehensive pension scheme, medical, educational and other social benefits, as well as financial support for relocation and installation, including your family and the availability of an excellent child care facility on campus.

What else you need to know

We are Europe's flagship research laboratory for the life sciences – an intergovernmental organisation performing scientific research in disciplines including molecular biology, physics, chemistry and computer science. We are an international, innovative and interdisciplinary laboratory with more than 1600 employees from many nations, operating across six sites, in Heidelberg (HQ), Barcelona, Hinxton near Cambridge, Hamburg, Grenoble and Rome. Our mission is to offer vital services in training scientists, students and visitors at all levels; to develop new instruments and methods in the life sciences and actively engage in technology transfer activities, and to integrate European life science research. Please note that appointments on fixed term contracts can be renewed, depending on circumstances at the time of the review.

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